

Coastal Resilient Communities Workshop



Disaster Management Framework

Mitigation	<ul style="list-style-type: none"> Hazard assessment Risk and vulnerability analysis Mitigation strategies and vulnerability reduction Integration of DRR in development activities
Preparedness	<ul style="list-style-type: none"> Warning prediction and dissemination Emergency preparedness Education, training, and public awareness
Response	<ul style="list-style-type: none"> Mobilization Needs assessment Rescue and evacuation Emergency assistance
Recovery	<ul style="list-style-type: none"> Rehabilitation Reconstruction

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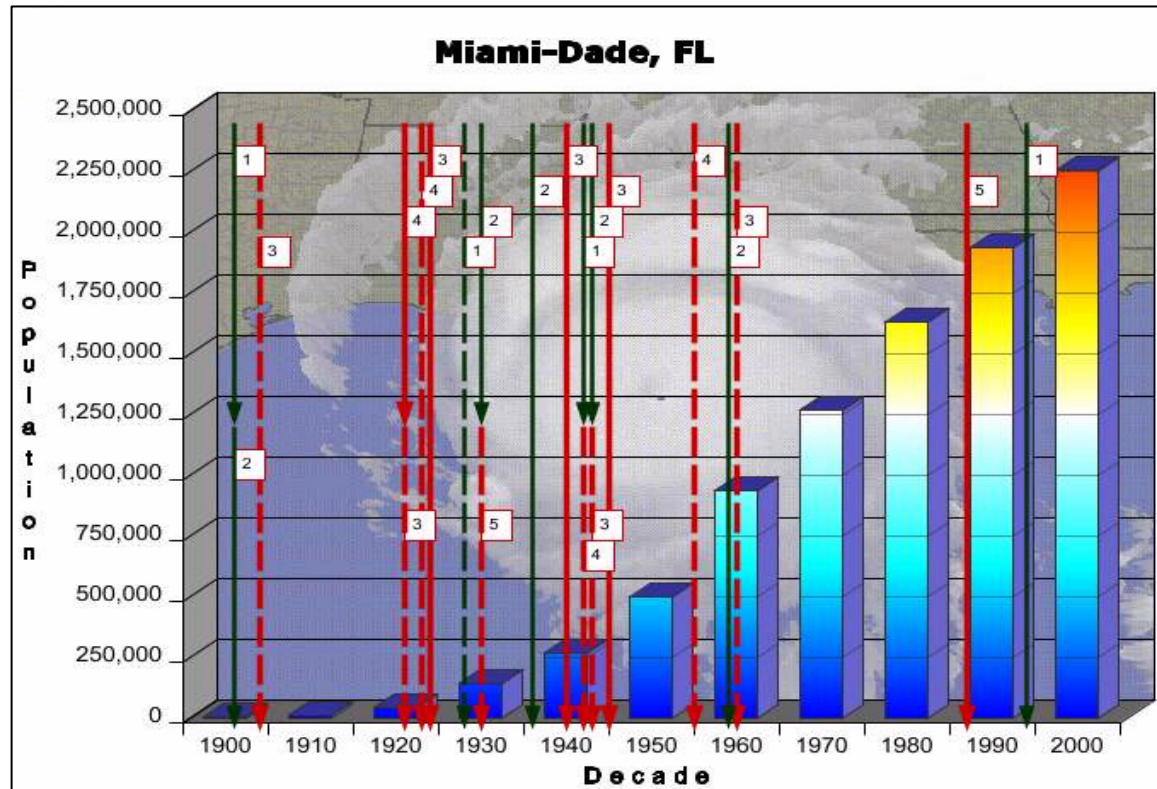
Assessment & Planning	<ul style="list-style-type: none"> Coastal resource and hazard assessment Plan formulation and revision
Implementation	<ul style="list-style-type: none"> Shoreline/foreshore management Marine zoning Marine protected area management Coastal vegetation/mangrove management Upland/watershed management Environment-friendly enterprise development
Monitoring & Evaluation	<ul style="list-style-type: none"> Annual Progress Review Biophysical/socioeconomic monitoring
Governance	<ul style="list-style-type: none"> Legal and policy framework Institutional Capacity Coastal Law Enforcement
Education & Outreach	<ul style="list-style-type: none"> Public awareness Formal and informal education

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U.S. Coastal Population Growth

- Coastal Counties comprise 17% of US land area and account for 52% of total population (139 million people)
- Projected increase by 26 million between now and 2015
- Many of these people have not experienced a coastal hazard



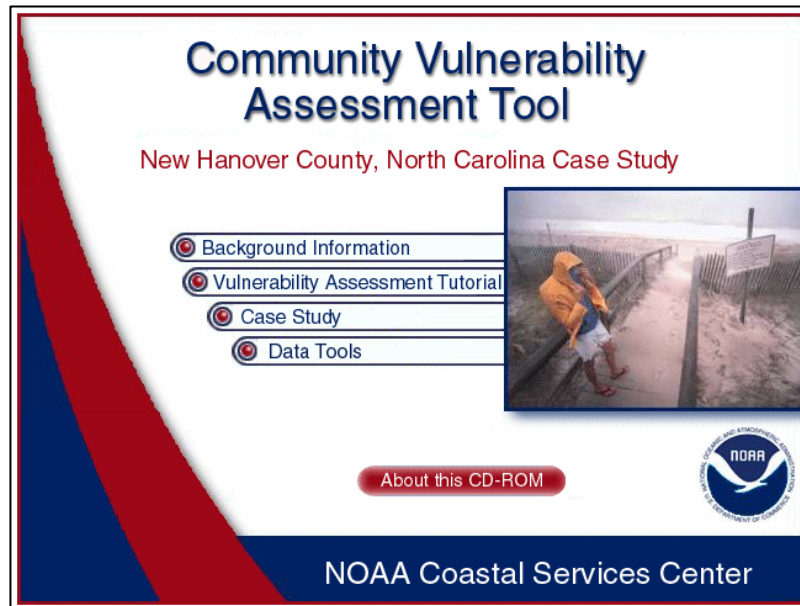
Does your community have population growth issues in high-hazard areas? How can we become more resilient?

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Community Vulnerability Assessment Tool (CVAT)

Description: The CVAT is a peer reviewed methodology for conducting multi-hazard risk and vulnerability assessments at the community level.



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CVAT Overview

The general methodology is included as a tutorial that steps the user through a “community level” process of analyzing the following vulnerability factors with respect to multiple hazards:

- physical
- social
- environmental
- economic



In addition to demonstrating the vulnerability assessment methodology, GIS is illustrated as a valuable resource for conducting hazards-related analyses in a case study format

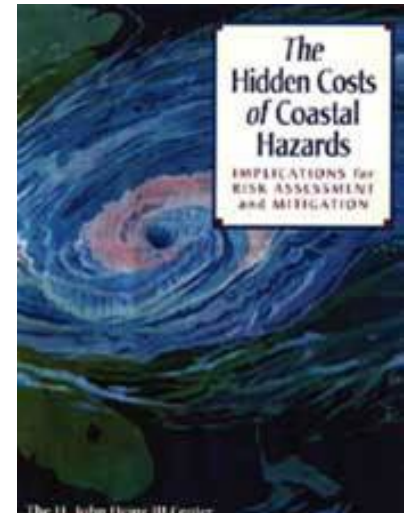


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CVAT Background

- The foundation for the CVAT methodology was established by the **Heinz Center Panel on Risk, Vulnerability, and the True Cost of Hazards (1999)**.
- Pilot Project to Support and Encourage Coastal Hazard Mitigation
- Partnership:
 - NOAA Coastal Services Center
 - Federal Emergency Management Agency (FEMA)
 - New Hanover County Department of Emergency Management





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Do you know...

what your most costly hazard risks are?

where your highest risk locations are?

which of your critical facilities are most vulnerable to hazards?

where your most vulnerable populations live?

how susceptible your local economy is to hazards?

what environmental resources are most at risk?

what your best opportunities to mitigate future impacts are?

CVAT can help answer these questions



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CVAT Seven Step Process

- Hazard Identification
- Hazard Analysis
- Critical Facilities Analysis
- Societal Analysis
- Economic Analysis
- Environmental Analysis
- Mitigation Opportunities Analysis



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Step 4: Societal Analysis

Input

Poverty
Age
Minority Population
No Vehicles
Female Households
Rental Households
Public Assistance

*Where are your high-need neighborhoods?
How vulnerable are they to hazard impacts?*

Societal Analysis

Output

Geographically defined areas of high risk coupled with minimal personal resources for hazard recovery. Can be used to develop mitigation strategies and target high-need locations.

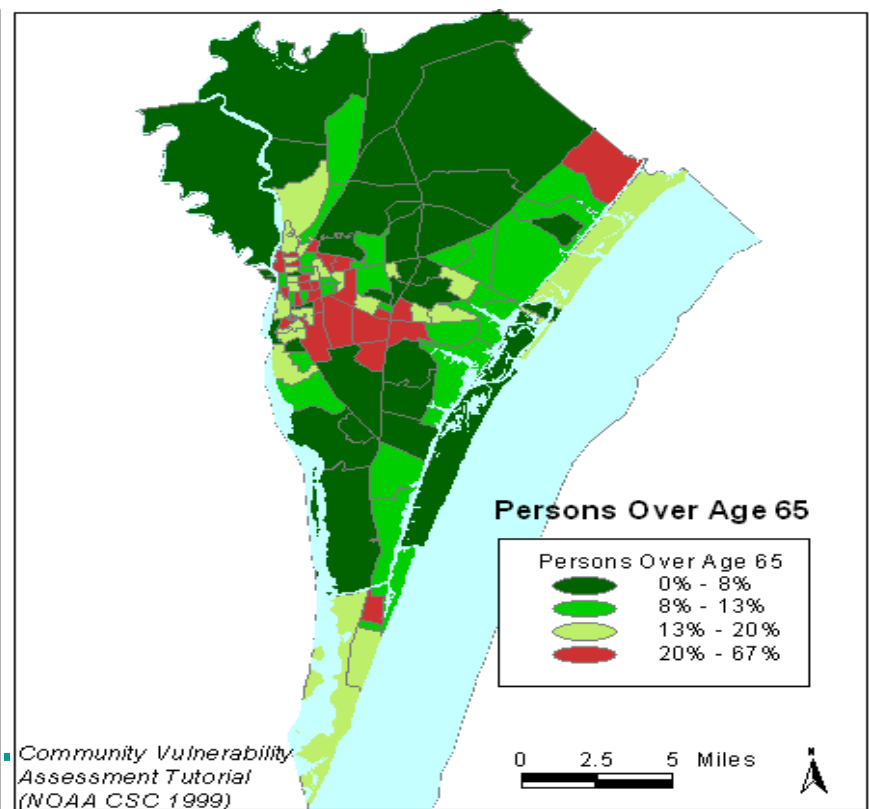
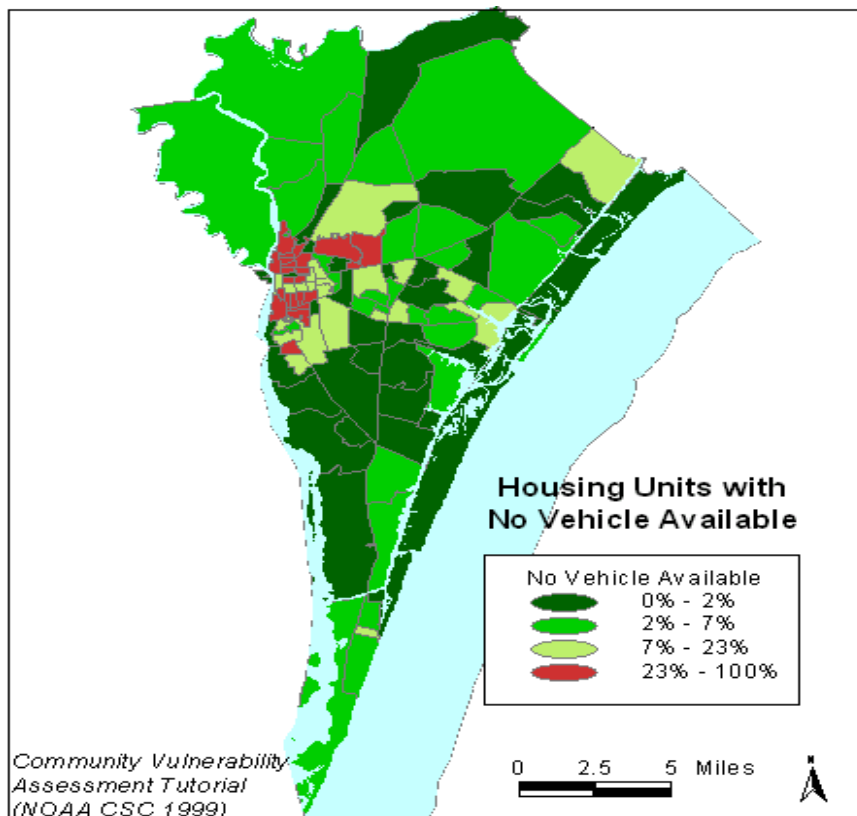
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Step 4: Societal Analysis

Where are your high-need neighborhoods?

How vulnerable are they to hazard impacts?

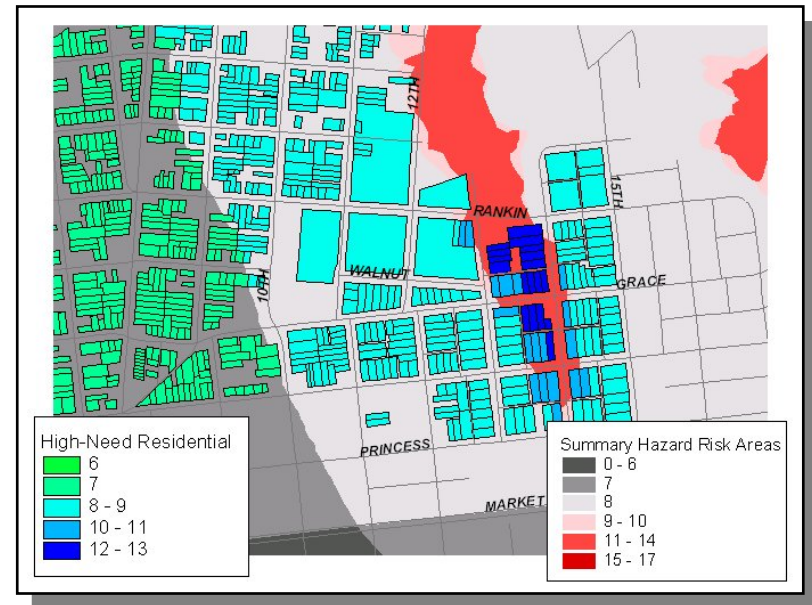
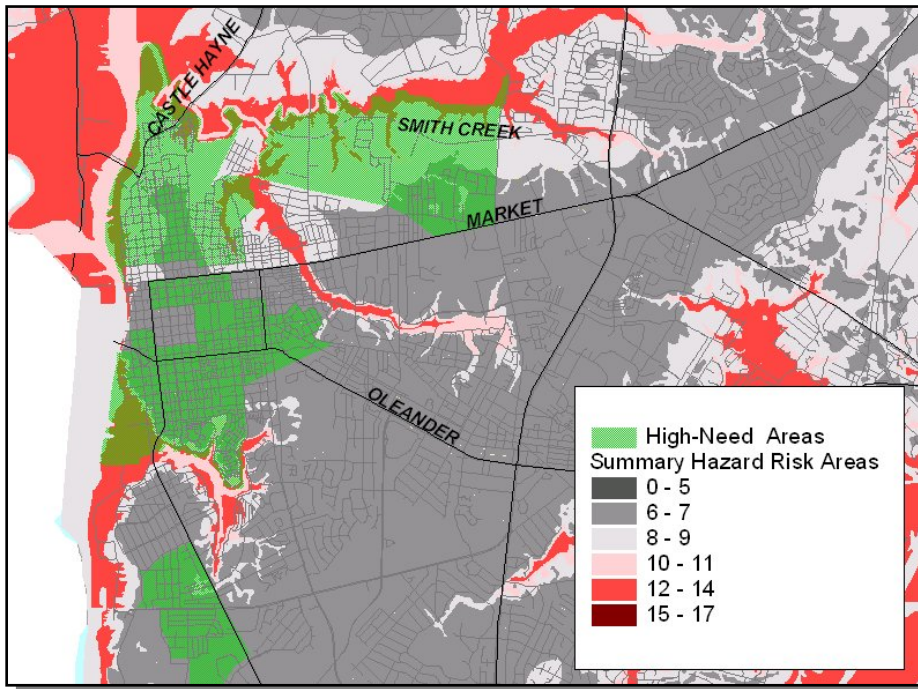


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Step 4: Societal Analysis

Step 4b: Identify intersections of special consideration populations with high-risk areas.





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Applications of the CVAT

Center-funded Assessments

Maui County, Hawaii – County-wide Assessment

Oregon and Washington – Community Assessment focused on Ports and Harbors

Rhode Island – Statewide Assessment

Brevard & Volusia Counties, FL – County-wide Assessments

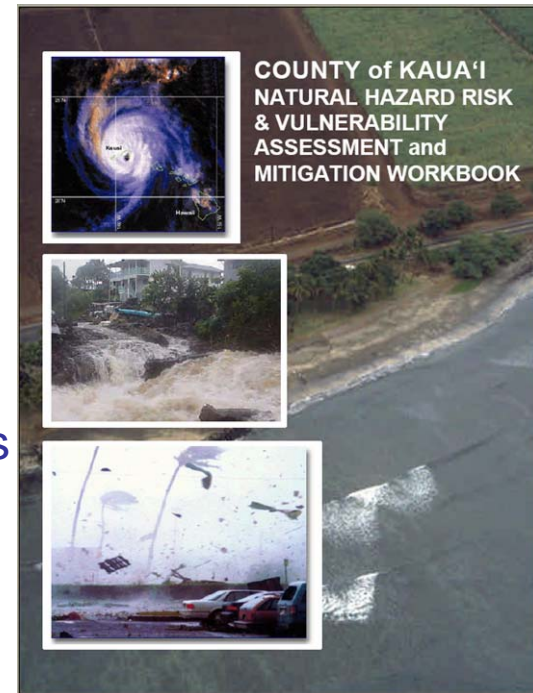
Tutuila, American Samoa – Island-wide Assessment

Independent Assessments

Caribbean – Grenada and Barbuda National Assessments

New Hampshire – Statewide and County-wide Assessment

Hawaii – Statewide and County-wide Assessment





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For more information contact:

Russell Jackson

**Executive Director
Pacific Risk Management `Ohana (PRiMO)**

**Coastal Hazards Program Coordinator
NOAA Pacific Services Center
737 Bishop Street
Mauka Tower, Suite 2250
Honolulu, HI 96813-3212**

Phone: 808-522-2299

Cell: 808-294-4730

Fax: 808-532-3224

Email: Russell.Jackson@noaa.gov

